SMT Gate Drive Transformer

1500Vdc Basic and Operational Insulation



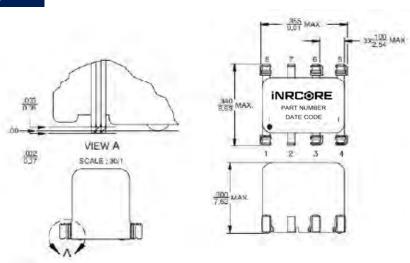
- 1500 Vpc isolation between Gate and Drive
- Basic Insulation (1.4mm creepage/clear-ance) and operational available
- Part designed for rugged environments
- Construction techniques assure excellent resistance to vibration and shock
- Operating frequency: 50kHz and up
- Moisture Sensitivity Level: 3

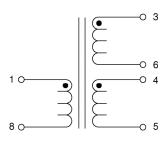
Electrical Specifications @ 25 $^{\circ}$ C – Operating Temperature $-$ 55 $^{\circ}$ C to $+$ 130 $^{\circ}$ C											
Part	Turns	Pri-Sec Isulation	MAX ¹	Primary Inductance	Leakage ² Inductance	DCR Primary	DCR Secondary	Package Size			
Number	Ratio	(V _{DC})						(L x W x H)			
			V*µsec	(mH MIN)	(µH MAX)	(ΩMAX)	(ΩMAX)	mm MAX)			
X-1569	1:1:1	1500	45.1	3.3	0.700	1.6	1.6	9.0 x 8.6 x 7.6			

- NOTES: 1. The maximum volt-sec rating limits the flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt-sec of two time this rating is acceptable. (2*(volt*usec ratio))
 - 2. Leakage Inductance is measured at the primary terminals with all secondaries shorted.
 - 3. Add suffix "T" to part number for Tape & Reel package.
 - 4. To order a RoHS compliant part, add the suffix "NL" to the part number, i.e. X-1569 becomes X-1569NL.

Mechanical Electrical Schematic

X-1569





Part hardened for aerospace use.

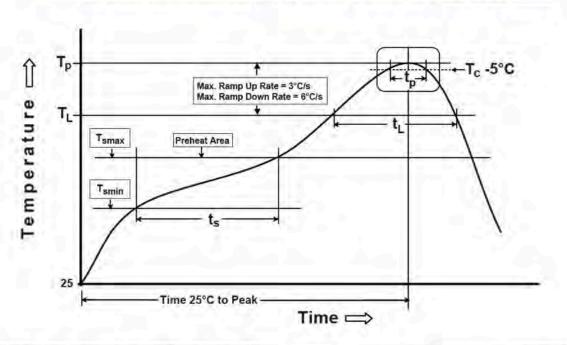


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T _{SMIN} T _{SMAX} (°C) (°C)		10000000	T _P (°C MAX)	t _s	t _L	t _P (s MAX)	Ramp-up rate (T _L to T _P)	Ramp-down rate (T _P to T _L)	Time 25°C to peak temperature (s MAX)	
100	00 150 183 235 60-12		60-120	60-150	20	3°C/s MAX	6°C/s MAX	360		

Notes:

- 1. All temperatures measured on the package leads.
- 2. Maximum times of reflow cycle: 2.

For More Information

iNRCORE,LLC 311 Sinclair Road Bristol, PA 19007-6812 U.S.A Tel: + 1.215.781.6400 Fax: +1.215.7816430

Global Sales Representatives and Locations:

http://www.inrcore.com

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